







Course Objectives

To provide an introduction to knowledge discovery in databases and complex data repositories, and to present basic concepts relevant to real data mining applications, as well as reveal important research issues germane to the knowledge discovery domain and advanced mining applications.



Students will understand the fundamental concepts underlying knowledge discovery in databases and gain hands-on experience with implementation of some data mining algorithms applied to real world cases.

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Principles of Knowledge Discovery in Databases















Projects		
	Choice	Deliverables
Ŷ.	Implement data mining project	Project proposal + 10' proposal presentation + project demo + project report
	Write survey paper (or research paper)	Survey proposal + 10' proposal presentation + paper presentation + survey paper (20-30 pages)
Examples of survey topics: •Web usage mining •Knowledge discovery from unstructured or semi-structured data on the WWW •Text mining •Data mining from non-traditional databases (OODB/deductive DB). •Spatial data mining •Multimedia data mining •Clustering •Clustering •Clustring •Clustring •Clustring •Datacube construction •Datacube construction •Datawarehousing		
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